

Testimony

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EPA's Safety Assessment of Substitutes for Ozone-Depleting Chemicals and Legal Issues Relating to CFC and Halon Production Rights

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Before the Subcommittee on Oversight and Investigations Committee on Energy and Commerce House of Representatives



Mr. Chairman and Members of the Subcommittee:

We appreciate the opportunity to appear here today to present our views on EPA's safety assessment of substitutes for chlorofluorocarbons (CFCs) and other ozone depleting chemicals. Our February 1989 report¹ is the basis for our testimony, as is the follow-up work done for the Subcommittee. At your request, our Office of the General Counsel has examined EPA's authority to use certain economic measures to capture windfall profits that might be created by the required limits on CFC production.

In brief:

- -- We recommended in our report that EPA fully use its authority under the Toxic Substances Control Act (TSCA) to assess the safety and environmental effects of chemicals that are now being developed as substitutes for CFCs and halons, the major ozone-depleting chemicals. These chemicals are now used in homes, businesses, and industry in a wide number of applications. The safety of substitute chemicals is therefore an issue that affects millions of users, as well as our environment. (Attachment I contains detailed information on our report findings and followup).
- -- EPA has published a solicitation for comments on the potential use of economic measures, such as a fee or auction system, to capture windfall profits. Our Office of the General Counsel has identified some key issues EPA must face to successfully implement these measures, such as whether such measures would be viewed as user fees, regulatory fees, or taxes, and whether EPA is authorized to

¹Stratospheric Ozone: EPA's Safety Assessment of Substitutes for Ozone-Depleting Chemicals (GAO/RCED-89-49, Feb. 13, 1989).

implement them under current law. It would be highly speculative to conclude whether EPA is authorized under law to use such measures before EPA makes a specific proposal and articulates the legal and other support for it. Further, because current court precedents do not definitively address some of these issues, EPA's implementation of either measure is likely to result in In this regard, if EPA replaces the allocation litigation. system with an auction system subsequently voided by the courts, compliance with the Montreal Protocol could be These uncertainties suggest to us that legislative action would be a more appropriate course to follow in addressing whether or what kind of economic measures should be established to capture windfall profits. A number of bills have been introduced during this Congress to impose economic measures on the production of CFCs and (Attachment II contains a detailed discussion of these issues).

SUMMARY OF REPORT FINDINGS

Let me return to our findings on EPA's safety assessment of CFC and halon substitutes. The need for CFC and halon substitutes is present and growing. Beginning in July, the Montreal Protocol—an international agreement—will set in motion a 10-year time frame for signatory countries to cut their CFC production levels by as much as 50 percent of 1986 levels. Halon production is to be frozen in 1992 at 1986 levels. While these cuts are being initiated, participating countries, including the United States, will also be actively considering an acceleration of the reduction schedule.

As the Montreal Protocol participants prepare to consider whether to revise their goals for production and consumption of ozone-depleting chemicals, the availability of safe substitutes for

these chemicals becomes even more important. Some users have already been able to move away from the regulated CFCs. But for other industrial applications, substitute chemicals or products are either not yet available or not as effective.

In response to this need, chemical producers around the world are working to develop CFC substitutes. Part of the development process involves testing potential substitutes to determine whether they could have adverse effects on human health. According to EPA evaluations, the existing toxicity data on alternative fluorocarbons is still incomplete. EPA's evaluations also noted concerns about potential adverse health effects that were suggested by both the available tests and other analyses of the chemicals.

Although the chemical producers are testing CFC alternatives both individually and as part of two international joint testing programs, EPA still has statutory responsibilities under TSCA to ensure that CFC and halon substitutes do not present unreasonable risks to human health and the environment. In November 1988, EPA outlined an approach for assessing the safety of most potential chemical substitutes, i.e., both "new" and "existing" chemicals. "Existing" chemicals are those that are listed on the TSCA Chemical Substance Inventory, and can be commercially produced by anyone, in any amount, and for any use without prior notification to EPA or an EPA safety review. EPA's approach for assessing new chemicals as potential CFC substitutes is to identify and assess them through the normal premanufacture notification process required under section 5 of TSCA. EPA's approach for existing chemicals includes an internal assessment of existing chemical literature and health and safety data on likely potential substitutes. EPA's approach also calls for industry to cooperate with EPA in providing data needed for EPA's assessment activities, and in providing its own views on assessment issues and needs.

While EPA's approach for new chemical substitutes should be adequate, its approach for reviewing existing chemicals that may be used as substitutes does not make full use of TSCA authorities. Specifically, EPA's assessment approach does not include the use of TSCA section 8(d) authority which would require producers to provide the agency with their unpublished health and safety studies on potential CFC and halon substitutes. Based on our follow-up work, EPA staff believe that they can obtain health and safety information more quickly by seeking voluntary cooperation of the producers. EPA also plans to send out letters to producers requesting this information under section 114 of the Clean Air Act. It should be noted, however, that EPA's previous attempt to gather testing data through such reporting has not been fully successful, since two out of the seven domestic producers have not furnished requested information, despite repeated follow-up.

Reviewing the information contained in producers' health and safety studies is an essential first step in EPA's assessment of CFC and halon substitute safety. By EPA using section 8(d) of TSCA, producers would be required to provide EPA with their unpublished health and safety studies on substitutes in a timely, ongoing manner. These data would help EPA decide whether further testing is needed to determine the safety of chemical substitutes and whether control measures on their use are needed to protect human health and the environment.

Unlike TSCA section 8(d), EPA's proposed use of section 114 of the Clean Air Act will provide it with only a "snapshot" of assessment activities at the time the request is made. It will not result in EPA being provided health and safety data in an ongoing manner. In our view, the section 114 letter approach is at best only an interim measure. Since CFC substitutes will take years to develop, we maintain that the use of TSCA section 8(d) for data gathering is the most appropriate way for ensuring that EPA is

provided with health and safety data on a timely, routine basis over the coming years.

EPA's assessment approach also does not include the use of TSCA section 5(a)(2) authority, which would require producers to provide EPA with advance notification of intended significant new uses of existing chemicals as substitutes for CFCs. This authority enables EPA to review the safety of significant new uses of existing chemicals and quickly control those that pose an unreasonable risk to human health and the environment. officials told us that they have not ruled out the use of this authority. Our follow-up work disclosed that EPA is considering issues such as what chemicals might be included in framing a significant new use rule for CFC substitutes and what triggers might be used to cause the rule to come into play. For example, the rule might specify that certain named chemicals must come under review if their production volume exceeds a stated level. While this discussion goes on within EPA over the possible use of a significant new use rule, the cause of our concern continues to be an issue: most of the potential substitutes identified so far can be produced by anyone, in any amount, and for any use, without prior notification to EPA or an EPA safety review.

Mr. Chairman, we recognize the need to eliminate the use of chemicals that deplete stratospheric ozone, and like EPA, we believe that CFC and halon substitutes must be safe and not pose unreasonable risks to human health and the environment. While EPA is considering actions that relate to our recommendations, those actions do not go far enough. In our view, the urgency associated with quickly developing substitutes to offset the phaseout of existing ozone-depleting CFCs and halons requires effective oversight in order to protect public health and the environment. We believe that such oversight is currently available to EPA through its TSCA authorities. For this reason we continue to urge the EPA Administrator to:

- -- Use his authority under TSCA section 8(d) to require chemical producers to submit for EPA review their health and safety data on chemicals that are actual or likely substitutes for CFCs and halons. EPA should review these data to determine if additional testing or controls are needed.
- "significant new use" rules. These rules would require chemical producers to notify EPA before existing chemicals are produced for significant new uses as CFC and halon substitutes, and they would enable EPA to review the safety of these uses and quickly control those that pose an unreasonable risk to human health and the environment. Without such a rule, most of the potential substitutes currently identified could be produced by anyone, in any amount, and for any purpose without first undergoing an EPA safety review.

Mr. Chairman, this concludes my prepared statement. I will be glad to respond to any questions that you or members of the Subcommittee might have.

GAO'S FINDINGS ON EPA'S SAFETY ASSESSMENT OF SUBSTITUTES FOR OZONE-DEPLETING CHEMICALS

THE NEED FOR CFC SUBSTITUTES

The need for chlorofluorocarbon (CFC) and halon substitutes is present and growing. Even the initial phase of the Montreal Protocol that calls for a production "freeze" at 1986 levels will result in CFC cutbacks because current production levels are already several percentage points higher than 1986 levels. And, as recently as March 1989, the United States and several other countries announced their position to totally phase out CFCs by the year 2000, thus going beyond the 50 percent reduction called for by the Montreal Protocol.

The effect of CFC regulations on industry depends not only on the pace of CFC reductions, but also on the speed with which substitutes can be developed and commercialized. Some users have already found the means to move away from the regulated CFCs. For example, the Foodservice & Packaging Institute, Inc., recently announced that its members have discontinued using CFC-12 to produce disposable food service products. This is possible because HCFC-22, which has only 5 percent of the capacity to deplete the ozone as CFCs-12, is a commercially available substitute. For other industrial applications, however, substitute chemicals or products are either not yet available or not as effective. For example, there are no fire extinguishants that have the useful

The exact percentage, based on reports by producers to EPA, is protected as confidential business information. The International Trade Commission, however, reported that U.S. production of CFC-11 and CFC-12 grew from 1986 to 1987 by 11.0 and 14.3 percent, respectively.

properties of halon, and commercially available alternative insulating materials are not as energy efficient as CFC-blown rigid foam.

Several producers of CFCs have announced stepped-up research efforts to develop chemical substitutes. Du Pont announced in July and September 1988 that it plans commercial production in Michigan and Texas of three alternatives to regulated CFCs. The alternatives are HFC-134a, HCFC-141b, and HCFC-142b, which have applications in refrigeration, air conditioning, and foam blowing. Du Pont also has a pilot plant in New Jersey for producing developmental quantities of HCFC-123. Du Pont reports that it spent more than \$30 million in 1988 on CFC alternatives research and production. ICI, headquartered in Great Britain, is spending approximately \$83 million (50 million pounds sterling) in search of benign CFC substitutes and has two pilot plants producing test quantities of alternative chemicals. And, in November 1988, ICI announced plans to spend about \$50 million on a plant in the United States for the commercial production of HCFC-134a by 1992. Signal of the United States has reported that it will spend over \$250 million on CFC research over the next 10 years. In March 1988, Allied-Signal joined with Atochem, Europe's largest CFC producer, in an effort to develop CFC substitutes. Each firm has pilot plants, and Allied Signal reports that it has made the potential substitutes HCFC-123, HCFC-141b, and HFC-134a available to end-users for testing and evaluation.

TESTING OF SUBSTITUTES

But even with increased research, substitutes may be several years away from commercialization. Producers must not only identify and synthesize potential substitutes, but also subject

them to tests to determine their performance capabilities in the particular applications for which they may be used. Most importantly, producers are putting substitutes through lengthy toxicological testing to assess their effects on human health and the environment.

These toxicity evaluations, which can take several years to complete, are a key step in the development of CFC or halon substitutes since many applications using CFCs and halons require low toxicity. A toxicity evaluation begins with a literature search to identify data already available on the toxicity of the chemical in question. The chemical's structure and various technical properties are ascertained, and an estimate is made of human exposure conditions. Then three tiers of toxicological testing are performed:

- -- Tier one focuses on the <u>acute</u> effects of exposure to the chemical through inhalation, ingestion, or skin contact.
- -- Tier two tests for <u>subchronic</u> effects, providing data on genetic, systemic, carcinogenic, and developmental effects that may result from repeated exposure to the chemical.
- -- Tier three is concerned with the effects of chronic
 (lifetime) exposure. Carcinogenic potential is investigated, along with multigeneration reproductive toxicity. Special tests, such as cardiac sensitization, neurotoxicity, and environmental impacts, would also be done at this time.

Tier one and tier two testing are generally done early in the

development process and can be completed within a year. Tier three tests can take from 3 to 4 years to complete.

After the testing is finished, the results are analyzed to determine the exposure conditions under which the chemical can be used safely. Based on these results, along with an assessment of other factors, such as production costs and potential markets, the producer makes a "go/no go" decision on whether to proceed with commercializing the chemical.

EPA'S ROLE REGARDING SAFE SUBSTITUTES

Article 9 of the Montreal Protocol calls upon participating parties to cooperate in research, development, and exchange of information on possible alternatives to ozone-depleting CFCs and halons. As one of the key U.S. agencies dealing with the stratospheric ozone issue, EPA will be involved in this future effort. EPA, however, has had long-standing responsibilities under section 153(b) of the Clean Air Act, as amended, to undertake research on "safe substitutes" for substances that directly or indirectly affect the stratosphere, especially the ozone in the stratosphere. Thus, even before the signing of the Montreal Protocol in 1987, EPA began to investigate whether other types of CFCs, known as "non-fully halogenated CFCs" or "HCFCs," might be feasible substitutes for ozone-depleting CFCs. These alternative fluorocarbons have lower ozone-depletion potential because their chemical composition includes hydrogen, making them less stable. They tend to decompose in the lower atmosphere and consequently have much less chance of reaching and harming the stratosphere. Reports by an EPA contractor and an EPA-sponsored international committee of CFC experts indicated that some alternative

fluorocarbons may prove to be successful substitutes, but that toxicity testing on these potential substitutes was incomplete.

EPA also has statutory responsibilities under the Toxic Substances Control Act (TSCA) to protect the public and environment from unreasonable risks posed by chemicals used in commerce, which include CFC substitutes. TSCA authorizes EPA to take steps to identify potentially harmful chemicals, gather information on their use and safety, and take appropriate control actions for those chemicals found to present an unreasonable risk to human health and the environment. However, the authorities provided under TSCA for regulating existing chemicals and new chemicals differ. "Existing" chemicals are defined under the provisions of TSCA as those that are listed in the TSCA Chemical Substance Inventory, which includes over 62,000 chemicals. "New" chemicals are defined as those not listed in the inventory.

While some CFC substitutes are new chemicals, most of them are existing chemicals because they are listed on the inventory (even though some have never been commercially produced). This fact has important ramifications for EPA's effort to review the safety of substitutes for ozone-depleting chemicals since, for the most part, only new chemicals are routinely subject to an EPA safety review before they are commercialized.

Review Authority for New Chemicals

Under section 5 of TSCA, any person who intends to manufacture or import a new chemical for commercial purposes in the United States must submit a notice called a "premanufacture notification" (PMN) to EPA at least 90 days before beginning manufacture. TSCA specifies that the notification include

information available to the producer on the chemical's identity, intended uses, and health and environmental effects. EPA has 90 days (extendable to another 90 days) to review the notification and assess whether or not the new chemical presents or may present an unreasonable risk to human health or the environment. decides that additional data are needed to make this assessment, it can control the use of the chemical until the data are provided. If EPA determines that the chemical does in fact present an unreasonable risk, it is required to take control actions ranging from requiring labeling to banning the chemical. Once the chemical successfully goes through the premanufacture notification review process, it is considered an existing chemical and is put on the TSCA inventory of existing chemicals. Unless EPA has stipulated control measures as a result of its premanufacture notification review, the chemical can be produced by anyone, for any purpose, in any amount without submission of further notifications or additional EPA safety review.

While the premanufacture notification review provides EPA with an initial opportunity to screen a new chemical for safety, only a few potential CFC substitutes are "new chemicals" subject to this review process. Most of the potential CFC substitutes identified by EPA--both the alternative fluorocarbons and other industrial chemicals--are on the TSCA inventory of existing chemicals.³

Review Authority for Existing Chemicals

TSCA provides EPA with several authorities to obtain data for assessing risks that may be posed by chemicals on the TSCA

³Among the alternative fluorocarbons, for example, HCFC-141b is considered a new chemical, while HFC-134a and HCFC-22, -123, and 142b are listed as existing chemicals.

inventory of existing chemicals. Producers must report to EPA any information on adverse health effects of their chemicals. Also, section 8(d) of TSCA authorizes EPA to require producers to provide EPA with their unpublished health and safety studies. 4 If EPA finds that a chemical could present an unreasonable health or environmental risk (or if there may be substantial human or environmental exposure to the chemical) and if testing is needed to develop sufficient data to determine the risks, EPA can use section 4 of TSCA to require chemical producers to perform such tests. Section 6 of TSCA authorizes EPA to take actions--ranging from labeling to a complete ban--to control the use of chemicals that it determines present an unreasonable risk to human health or the environment. However, until an existing chemical is shown to pose such a risk and appropriate control actions are implemented by EPA, the chemical can be produced by anyone, in any amount, and for any use without notification to EPA.

There is an important TSCA provision, however, which gives EPA the opportunity to review the safety of chemicals on the TSCA inventory prior to their being put to new uses. By imposing a "significant new use rule" (SNUR) under section 5(a)(2) of TSCA on a specified existing chemical, EPA can require producers to notify the agency in advance of a significant new use of that chemical. The producer must provide information on the chemical, including its composition, projected volumes and worker exposure, and any

⁴EPA defines "health and safety study" to mean "any study of any effect of a chemical substance or mixture on health or the environment or on both, including underlying data and epidemiological studies, studies of occupational exposure to a chemical substance or mixture, toxicological, clinical, and ecological or other studies of a chemical substance or mixture, and any test performed under TSCA. . . . Any data that bear on the effects of a chemical substance on health or the environment would be included." (40 C.F.R. 716.3).

available test data. If EPA decides that the information submitted is inadequate to assess whether the significant new use is safe, EPA can require that testing be done to collect additional data. The SNUR also gives EPA authority to put a hold on the chemical's new use while the data are being gathered and evaluated.

At present, none of the alternative fluorocarbons on the TSCA inventory of existing chemicals have SNURs attached to them. Consequently, they can be produced by anyone, in any volume, and for any use without an EPA safety review.

EPA'S APPROACH TO ASSESSING CFC AND HALON SUBSTITUTE SAFETY

Recognizing that special actions would have to be taken to assess potential substitutes classified as existing chemicals, EPA considered various approaches to assessing the safety of existing chemical substitutes, as well as new chemical substitutes. The approach ultimately adopted in November 1988 set several broad assessment goals.

As outlined in an internal memorandum, EPA's overall goal is "to ensure the introduction of safe substitutes"—that is, substitutes that present no "unreasonable risks." EPA stressed that "[a]ny long-term solution must not create new health or environmental problems." The memorandum also noted the importance of early EPA involvement in testing decisions for the substitutes "to ensure that testing needs for both new and existing substitutes are identified using consistent approaches, that needed testing is properly performed, and that evaluations of test data on the substitutes are performed in a consistent manner." Early review is important to ensure that any disagreements between EPA and chemical

producers over testing are raised and resolved quickly in order to avoid unnecessarily delaying the introduction of safe substitutes.

While EPA's approach calls for new chemical substitutes to be identified and assessed through the normal premanufacture notification review required under section 5 of TSCA, its approach for reviewing existing chemicals that may be used as substitutes does not fully use TSCA authorities. Specifically, at present EPA does not plan to require producers to provide the agency with their unpublished health and safety studies on CFC and halon substitutes, or to report significant new uses of existing chemicals as substitutes. Instead, EPA plans to obtain health and safety information by sending letters to producers requesting this information under section 114 of the Clean Air Act, in the belief that testing information can be obtained more rapidly in this way. EPA believes that the producers will cooperate with this approach, given the glare of publicity on the stratospheric ozone issue.

However, EPA has yet to demonstrate that it can obtain complete testing information on CFC and halon substitutes through such reporting. In December 1987, EPA attempted to obtain testing information from the seven domestic CFC and halon producers, but two producers would not respond with the requested data. EPA made followup requests to both producers. One producer did not respond, even after a second followup request. The other producer replied in February 1988 that it would supply the requested testing information by March. However, this information was not supplied. In June 1988, after followup by EPA, the producer replied that it was a member of an international testing group called PAFT, or Program for Alternative Fluorocarbon Toxicity Testing made up of over a dozen major chemical companies. The producer referred EPA to the chairman of PAFT for information regarding its testing.

Other producers who had responded to EPA's original request also mentioned their involvement in PAFT, but provided no details on the testing plans that were being developed by PAFT.

The chairman of PAFT told us that the PAFT protocol prohibits any one member company from disclosing testing information. He added, though, that the protocol recognizes that this restriction can be superceded by any regulations in a particular country that require a company to report toxicity information. In a January 1988 letter to the EPA Administrator, the PAFT chairman stated that "[i]t is intended that the results from the test programs will be published in the open literature. In addition, any significant interim results will be promptly communicated to regulatory authorities as required by law" [emphasis added].

EPA did not contact PAFT about its testing program until after the November 1988 assessment memorandum was signed. In a December 5, 1988, letter to the PAFT chairman, EPA invited PAFT representatives to meet with EPA staff "to present your on-going activities and future plans for toxicity testing of the chemicals covered by your organizations." On March 22, 1989, EPA met with three PAFT members and discussed PAFT's planned and ongoing testing for CFC substitutes. EPA told us that on the basis of the information gathered at that meeting, the agency plans to submit to PAFT its "expectations" of the testing program, including testing procedures and information dissemination.

We recognize that it is important that EPA review the producers' testing plans as quickly as possible, especially given the fact that the producers' testing is underway and EPA was slow in coming to closure on how to approach the safety issue. However, we believe that the reporting of health and safety studies should

be put on a formal basis. We believe that TSCA section 8(d) authority is an appropriate vehicle for obtaining health and safety information from PAFT members doing business in the United States and subject to TSCA, as well as from domestic chemical producers and importers who are not members of PAFT. Use of section 8(d) would establish an ongoing regulatory mechanism to provide EPA with health and safety studies on substitutes on a timely basis over the coming years. This is a particularly important point since the substitute safety issue will take years to resolve due to the long-term nature of the testing and the likelihood that a series of substitutes will be developed over several years to replace the regulated CFCs and halons.

Use of TSCA Authority to Review and Control New Uses of Existing Chemical Substitutes

EPA's November 1988 assessment approach also does not call for the use of TSCA section 5(a)(2) to promulgate "significant new use" rules, or SNURs, on any of the chemical substitutes. We believe that SNURs are warranted in the case of alternative fluorocarbons that are currently on the TSCA inventory of existing chemicals, as well as fluorocarbons that may later be added to the inventory following a premanufacture notification review. We also believe that chemical substitutes other than alternative fluorocarbons should be considered for SNURs, depending on their known toxicity, exposure levels, and exposure situations as substitutes in CFC applications.

SNURs, in essence, provide EPA with review and control authorities over specified existing chemicals similar to the premanufacture review for new chemicals required under TSCA.

SNURs would ensure that EPA is notified before existing alternative fluorocarbons and other existing chemicals are put to new significant uses as CFC and halon substitutes, and they would give EPA the opportunity to review the producers' health and safety data to determine whether the chemicals could be used safely in the particular exposure situations that the new uses involve. This authority is also useful in the case of new fluorocarbons that undergo premanufacture notification review and are subsequently added to the inventory. A SNUR would enable EPA to monitor changes in the manufacture and use, and thus exposure, of these newer chemicals. Also, unlike section 8(d) authority, which is limited to data-gathering, SNURs enable EPA to quickly control significant new uses of the substitutes, if deemed necessary to protect human health and the environment.

Whether EPA will eventually use SNURs for CFC and halon substitutes remains an open issue. EPA told us that SNURs are cumbersome rules to develop, promulgate, and implement. Part of the difficulty in developing a SNUR involves the need to fine-tune the SNUR to capture adequately the specific chemicals and uses of concern. According to Office of Toxic Substances (OTS) staff, a SNUR rulemaking can take 6 to 8 months if there are no problems, but a year is more common. However, OTS is currently promulgating an expedited procedure for SNURs that will abbreviate the SNUR review and development process. In March 1989, OTS announced its intent to publish this new procedure as a final rule sometime within the next few months.

⁵In an earlier report, <u>Assessment of New Chemical Regulation Under the Toxic Substances Control Act</u> (GAO/RCED-84-84, June 15, 1984), we discussed the advantages of using SNURs to monitor changes in the manufacture and use of new chemicals that have undergone EPA's premanufacture notification review and have been added to the TSCA inventory of existing chemicals.

without SNURs, only new chemical substitutes would be routinely subject to review before commercialization. An existing substitute that had never been commercialized would face no such review unless a SNUR is imposed on it. Promulgating SNURs on alternative fluorocarbons and other chemical substitutes listed on the TSCA inventory of existing chemicals would essentially bring them into a similar review process as the "new" fluorocarbons and would, therefore, help EPA meet its declared assessment goal of having both new and existing chemical substitutes undergo consistent testing and review before being used commercially.

LEGAL ISSUES RELATED TO USING ECONOMIC MEASURES TO IMPLEMENT THE MONTREAL PROTOCOL

EPA has implemented an allocated quota system to carry out the Montreal Protocol on Substances that Deplete the Ozone Layer. However, EPA is exploring the use of economic measures because of its concern that restricting future supplies of CFCs and halons could produce sizeable "windfall profits" to producers, and create an economic incentive for producers to delay introduction of safe substitutes. The measures being explored include regulatory fees to accompany the existing allocated quota system and an auction system to replace the quota system. The measures would be intended to recover the market value of the restricted right to produce CFCs and halons.

EPA has not yet proposed a rule for the use of economic measures. It would be highly speculative to conclude whether EPA is authorized under certain law to use such measures before EPA makes a specific proposal and articulates the legal and other support for it. Nevertheless, it is clear that if EPA decides to use economic measures to implement the Protocol, it will have to resolve certain fundamental legal issues, such as whether such measures constitute user fees, regulatory fees, or taxes and whether EPA is authorized to establish them under current law. Further, because current court precedents do not definitively resolve some of these issues, EPA's implementation of a fee or auction system is likely to result in litigation. In this regard, if EPA replaces the allocated quota system with an auction system subsequently voided by the courts, compliance with the Montreal Protocol could be adversely affected. These uncertainties suggest

that legislative action would be a more appropriate course to follow in addressing whether a fee or auction system should be established to capture windfall profits.

BACKGROUND

The Montreal Protocol went into force on January 1, 1989. Its purpose is to reduce the depletion of stratospheric ozone by limiting the participating countries' total production and consumption of certain ozone-depleting chemicals according to a specified schedule. Two groups of chemicals are affected: CFCs and halons.

The Protocol ties future production and consumption of the controlled chemicals to 1986 levels. Production and consumption of CFCs will be frozen at 1986 levels for the twelve-month period beginning July 1, 1989. CFCs then would be reduced by 20 percent from the 1986 levels by June 30, 1994, and 50 percent by June 30, 1999. Production and consumption of halons will be frozen at 1986 levels in 1992. Within each group of substances (CFCs and halons), each chemical is assigned an ozone-depletion weight which measures its relative ability to destroy ozone molecules in the stratosphere. Production may be shifted from a chemical in one group to another chemical in the same group, provided that the total ozone-depletion potential is not increased.

The EPA issued a final rule under 157(b) of the Clean Air Act, 42 U.S.C. § 7457, to implement the Montreal Protocol. The

⁶Production is defined as the amount of controlled chemicals produced minus the amount destroyed by approved technologies. Consumption is defined as production of controlled chemicals plus imports minus exports.

⁷53 Fed. Reg. 30566 (August 12, 1988).

rule allocates production and consumption to firms based on their 1986 production and consumption levels. EPA rejected a regulatory fee or auction system in favor of the allocated quota system. 8 However, because of concern that the quota system could result in potential windfalls to producers and create an economic incentive for producers to delay introduction of chemical substitutes, EPA also issued an Advance Notice of Proposed Rulemaking to further explore the use of economic measures to implement the Protocol. 9

"EPA has concluded that the allocated quota system is the appropriate method for implementing the Montreal Protocol for several reasons. One, by directly regulating the supply of CFCs and halons, the allocated quota system is a straightforward method of ensuring that the requirements of the Montreal Protocol are met. Two, it is clearly lawful, in contrast to the auction and regulatory fee systems which raise legal issues. Three, as a market-based approach, the allocated quota system is economically efficient. Four, it is relatively simple to administer, since the producers and importers subject to the allocated quotas are small in While EPA recognizes that an allocated quota system has the potential for windfall profits and the concentration of market power in relatively few companies, it does not believe those disadvantages would prevent the system from bringing about the reductions in ozone-depleting substances required by the Protocol.

EPA has selected the allocated quota system rather than other strategies, given the allocated quota systems capability of implementing the Montreal Protocol in an economically efficient, low cost manner and the legal and other concerns associated with other systems. However, EPA recognizes that the use of an allocated quota system standing alone could result in substantial windfalls to a small number of CFC and halon producers which could create an economic incentive for these firms to delay the introduction of chemical substitutes.

Because of this concern, EPA is continuing to examine several alternatives to the use of an allocated quota system alone. . . " 53 Fed. Reg. 30579 (August 12, 1988).

⁸EPA gave the following reasons for selecting the quota allocation system:

⁹53 Fed. Reg. 30604 (August 12, 1988).

The economic measures being explored by EPA generally are regulatory fees coupled with the allocated quota system and an auction system. Stated simply, a regulatory fee would be a direct charge on producers with allocations to recover some or all of the windfalls accruing to them. EPA also is exploring auctioning production and consumption rights to any interested party, which presumably would yield a price for these rights that reflects the expected windfall.

As discussed below, there are significant legal issues surrounding EPA's authority to use either of these measures. These issues are whether these measures would be viewed as user fees, regulatory fees, or taxes, and whether EPA is authorized to implement them under existing law.

DISCUSSION

Generally, courts have addressed legal challenges to an agency's authority to levy a charge on the public by analyzing the nature of the charge and whether it falls within the statutory authority relied on by the agency. Charges characterized as "user charges" are generally authorized by 31 U.S.C. 9701, for which a significant body of case law exists. Other charges characterized as "regulatory fees" may be upheld by the courts when they are either expressly provided by the agency's authorizing legislation or deemed necessary to accomplish a legitimate regulatory purpose under a broad grant of statutory authority. However, courts generally conclude that the authority to assess a charge does not include the authority to tax, and have been unwilling to uphold charges when doing so would move the authorizing statute towards a delegation of Congress' taxing power.

User Charges

Two Supreme Court decisions provide the framework for analyzing charges established by agencies under the authority of the so-called User Charge Statute. 10

National Cable Television Co. v. United States, 415 U.S. 336 (1974), concerned the legality of annual fees assessed by the Federal Communications Commission (FCC) on cable television systems at a rate of 30 cents per subscriber. FCC justified the assessment on the ground that the User Charge Statute authorized FCC to recover all of its costs in regulating cable television systems. The Supreme Court reversed a lower court approval of the fee.

The Court discussed the difference between a tax and a fee, which it described as incident to a voluntary act involving a

* * *

- (1) fair; and
- (2) based on--
 - (A) the costs to the Government;
 - (B) the value of the service or thing to the recipient;
 - (C) public policy or interest served; and
 - (D) other relevant facts "

¹⁰The User Charge Statute, formerly 31 U.S.C. § 483a and now codified at 31 U.S.C. § 9701, provides:

[&]quot;(b) The head of each agency (except a mixed-ownership Government corporation) may prescribe regulations establishing the charge for a service or thing of value provided by the agency. Regulations prescribed by the heads of executive agencies are subject to policies prescribed by the President and shall be as uniform as practicable. Each charge shall be--

government service that bestows a benefit on an individual. 11 However, the Court chose not to address whether the User Charge Statute authorized the levying of taxes, in which case the statute would be subject to challenge as an unconstitutional delegation of the taxing power. 12

Rather, the Court focused on the function of the FCC to

"Taxation is a legislative function, and Congress, which is the sole organ for levying taxes, may act arbitrarily and disregard benefits bestowed by the Government on a taxpayer and go solely on ability to pay, based on property or income. A fee, however, is incident to a voluntary act, e.g., a request that a public agency permit an applicant to practice law or medicine or construct a house or run a broadcast station. The public agency performing those services normally may exact a fee for a grant which, presumably, bestows a benefit on the applicant, not shared by other members of society. It would be such a sharp break with our traditions to conclude that Congress had bestowed on a federal agency the taxing power that we read 31 U.S.C. § 483a narrowly as authorizing not a 'tax' but a 'fee.' A 'fee' connotes a 'benefit' and the Act by its use of the standard 'value to the recipient' carries that connotation. The addition of 'public policy or interest served, and other pertinent facts,' if read literally, carries an agency far from its customary orbit and puts it in search of revenue in the manner of an Appropriations Committee of the House.

"The lawmaker may, in light of the 'public policy or interest served,' make the assessment heavy if the lawmaker wants to discourage the activity; or it may make the levy slight if a bounty is to be bestowed; or the lawmaker may make a substantial levy to keep entrepreneurs from exploiting a semipublic cause for their own personal aggrandizement. Such assessments are in the nature of 'taxes' which under our constitutional regime are traditionally levied by Congress." 415 U.S. 340-341.

¹¹The Court stated:

¹²415 U.S. at 341-342.

safeguard the public interest¹³ and whether the fee assessed by the FCC measured "the value to the recipient." In so doing, the Court stated that the words "value to the recipient" and not "public policy or interest served and other pertinent facts" in the User Charge Statute were relevant. The Court then concluded that the FCC had not clearly used the correct standard because assessing a fee to recover all of the FCC's cost in regulating the cable industry would recoup costs unrelated to the conferral of any special benefit. The Court reversed and remanded the case to the FCC for further consideration consistent with its opinion. 415

A companion case, <u>Federal Power Commission v. New England Power Co.</u>, 415 U.S. 345 (1975), also addressed the User Charge Statute. The Federal Power Commission (FPC) assessed fees to recoup costs it incurred in regulating the interstate transmission and sale of electricity and the interstate delivery of natural

"There is no doubt that the main function of the Commission is to safeguard the public interest in the broadcasting activities of members of the industry. If assessments are made by the Commission against members of the industry which are sufficient to recoup costs to the Commission for its oversight, the CATV's and other broadcasters would be paying not only for benefits they received but for the protection services rendered the public by the Commission . . . " 415 U.S. 341.

¹⁴The Court stated that:

"It is not enough to figure the total cost (direct and indirect) to the Commission for operating a [cable] unit of supervision and then to contrive a formula that reimburses the Commission for that amount. Certainly some of the costs inured to the benefit of the public, unless the entire regulatory scheme is a failure, which we refuse to assume." 415 U.S. 343.

¹³The Court stated that:

gas. 15 The FPC justified the fees on the basis that their regulations benefited the regulated industries by creating an economic climate for greater usage of their services, the result of which was to place the industries in sounder financial position.
415 U.S. 348.

The Court agreed with a lower court's conclusion that whole industries are not in the category of those who may be assessed under the User Charge Statute, its thrust reaching only specific charges for specific services to specific individuals or companies. 415 U.S. 349. The Court noted that OMB Circular No. A-25, September 23, 1959, stated that a reasonable charge should be made to each identifiable recipient for a measurable unit or amount of government service or property from which he derives a special benefit, and that no charge should be made for service rendered when the identification of the ultimate beneficiary is obscure and the services can be primarily considered as benefiting the general public. 415 U.S. 349-350.

The Court concluded that the OMB Circular represented the proper construction of the User Charge Statute, and keeps the statute within the boundaries of a fee system and away from the domain of taxes toward which the FPC's economic climate argument would lead. In this regard, the Court pointed out that some of the assessments made by the FPC would be on companies which had no proceedings before, or had neither requested nor received benefits from, the FPC during the year in question. The Court stated that while some regulatory rulings might result in each member of an

¹⁵The FPC's fees were assessed against electric utilities under the Federal Power Act and natural gas companies under the Natural Gas Act. In both cases, the FPC determined its costs of administration and, after deducting certain items, assessed the remainder against the utilities and companies in proportion to their activities.

industry being an identifiable recipient of the regulator's service, in which case a fee might be warranted, the fees FPC assessed on the basis of general regulatory activities were not within the scope of the statute. 415 U.S. 351. The Court affirmed the Court of Appeals decision to set aside the annual charges.

The analysis contained in the <u>National Cable</u> and <u>New England</u>

<u>Power</u> cases suggests that an agency may assess a fee under the User

Charge Statute for specific services provided to specific

individuals and companies if the fee measures the "value of the

service to the recipient." However, the cases also suggest that

the Courts are not sympathetic to a fee based either on the public

policy or interest criteria set forth in 31 U.S.C. § 9701

(b) (2) (C)-(D) or on the costs to the government of general

regulatory activities.

However, these cases did not provide specific criteria for measuring "value to the recipient." Since "cost to the government" is already addressed by 31 U.S.C. § 9701(b)(2)(A), to equate "value to the recipient" and "cost to the government" would appear inconsistent with a generally accepted rule of statutory construction, i.e. statutory provisions should not be construed to render one mere surplusage. Nevertheless, a number of the lower courts have in fact held that "value to the recipient" cannot exceed the "cost to the government" in providing the identified benefits. 16

¹⁶ See, e.g., Central & Southern Motor Freight Tariff Ass'n v. United States, 777 F.2d 722, 729 (D.C. Cir. 1985); Nevada Power Co. v. Watt, 711 F.2d 913, 933 (10th Cir. 1983); Yosemite Park and Curry Co. v. United States, 686 F.2d 925, 931 (Ct. Cl. 1982); Mississippi Power & Light v. NRC, 601 F.2d 223, 230 (5th Cir. 1979), cert. denied, 444 U.S. 1102 (1980); National Cable Television Ass'n v. United States, 554 F.2d 1094, 1106-07 (D.C. Cir. 1976); Electronic Industries Ass'n v. FCC, 554 F.2d 1109,

These lower court cases suggest some difficulty for EPA in assessing a fee under the User Charge Statute which exceeds its cost in providing the specific benefit conferred. To this point, the fee and auction system EPA is exploring appears to be based on the "windfall profits" that will accrue to producers as a result of EPA's allocating to the producers the right to produce restricted commodities, and not on EPA's costs in conferring the benefits. Further, a fee assessed under the User Charge Statute which is designed to serve the public policy of creating an economic incentive to develop safe substitutes may be viewed as the type of assessment which moves the statute away from fees and towards taxes, and which the Court warned against in New England Power.

Nevertheless, this situation does differ from the cases discussed above. New England Power involved economic benefits which the Court concluded were general, unspecified and unmeasured. Here, there presumably will be companies applying to EPA for production and consumption allocations, and EPA may be able to measure the economic benefit accruing to each company from EPA's regulatory actions. However, it is unclear what importance the courts will give to these factors, and whether they would entertain a fee under the User Charge Statute based on "windfall profits" earned by producers.

Regulatory Fees

The concept underlying regulatory fees is that the government may levy charges on a part of its citizenry incident to some regulatory purpose. A seminal case in this area is the <u>Head Money</u>

^{1114-15 (}D.C. Cir. 1976); <u>National Ass'n of Broadcasters v. FCC</u>, 554 F.2d 1118, 1128 (D.C. Cir. 1976); <u>Capital Cities Communities</u>, <u>Inc. v. FCC</u>, 554 F.2d 1135, 1138 (D.C. Cir. 1976).

Cases, 112 U.S. 580 (1884). This case involved legislation which provided for a duty of 50 cents on shipowners for each and every passenger who is not a citizen of the United States who enters a port in the United States from a foreign port. The money collected was paid into the Treasury in a special fund used to defray the expense of regulating immigrations under the act and for the care of immigrants arriving in the U.S.

The statute was challenged on the grounds that the duty was a tax which violated the tax clause of the Constitution in that it was not levied for the common defenses and general welfare of the United States and that it was not uniform throughout the United States. 17 The Court first discussed in dicta that there was substantial uniformity under the statute within the meaning of the Constitution and that it would not be difficult to show that the contributions of shipowners were for the general welfare of the United States. 112 U.S. 594-595. However, the Court decided that the true answer to the challenge to the statute was that the power exercised under the statute was not the taxing power. Rather, the payment was a mere incident of Congress' regulation of commerce, namely that part of foreign commerce involved in immigration. 112 U.S. 595. In this regard, the Court noted that the authorizing legislation was designed to address potential evils inherent in the business of bringing foreigners to this country, and the shipowners reaped the profit from this business. The Court thus concluded that the statutory payment was not a tax within the meaning of the Constitution, but rather money that Congress was empowered to

¹⁷U.S. Constitution, Art. I, Sec. 8, cl. 1 which provides:

[&]quot;The Congress shall have power to lay and collect taxes, duties, imposts, and excises, to pay the debts and provide for the common defense and the general welfare of the United States; but all duties, imposts, and excises shall be uniform throughout the United States."

collect under the statute as part of its statutory scheme for regulating commerce.

Lower court decisions have similarly sustained statutory charges levied when expressly authorized and there is a close relationship between the charge and the regulatory purpose. E.g., State of South Carolina ex rel Tindal v. Block, 717 F.2d 874, 887 (4th Cir. 1983), cert. denied 465 U.S. § 1080 (1984); United States v. Stangland, 242 F.2d 843 (7th Cir. 1957); Rodgers v. United States, 138 F.2d 992 (6th Cir. 1943). In rejecting arguments that a regulatory assessment was a tax, the courts have stated that the assessment is a tax only when its primary purpose is raising revenue. See e.g., Rural Telephone Coalition v. FCC, 838 F.2d 1307, 1314 (D.C. Cir. 1988) Brock v. Washington Metropolitan Area Transit Auth., 796 F.2d 481, 188-89 (D.C. Cir. 1986), cert. denied 481 U.S. 1013 (1987).

Therefore, the question of Congress' authority to enact, and the executive branch's authority to implement, legislation that explicitly establishes a regulatory fee is fairly well-settled. However, the authority of the executive branch to establish a regulatory fee under a general grant of authority is more murky.

In <u>FEA v. Algonquin Sng, Inc.</u>, 426 U.S. 548, (1976), a regulatory fee established by the President was upheld. This case involved whether section 232(b) of the Trade Expansion Act as amended, 19 U.S.C. § 1862(b), authorized the President to impose a license fee to regulate the importation of oil into the country. Section 232(b) of the Act provides that if an article is being imported into the United States in such quantities or under such circumstances as to threaten to impair the national security, the President is authorized to take such action, and for such time, as he deems necessary to adjust the imports of such article and its

derivatives so that such imports will not threaten to impair the national security.

After finding that the importation of crude oils and crude oil derivatives and products threatened to impair the national security, the President in 1959 imposed under a predecessor statute a system of quotas on the importation of petroleum and petroleum products. The quotas were not wholly successful in decreasing the gap between domestic consumption and production, and the quotas were increased periodically to satisfy domestic consumption. Therefore, the President instituted a program in 1973 to substitute fees for quotas. The program established a gradually increasing schedule of license fees for importers with some oil imports initially exempted. In 1975, based on a section 232(b) finding, the President accelerated the increase in license fees and added supplemental fees on all oil imports.

The President's 1975 action was challenged on the basis that the imposition of the fees was beyond the President's constitutional and statutory authority. The Supreme Court concluded that the statute was a proper delegation of authority and that the fees were authorized by the broad language of the statute.

The Court first rejected the argument that reading section 232(b) to authorize a license fee system presents a serious question of unconstitutional delegation of legislative power. The Court, in noting that it had previously upheld the constitutionality of legislation empowering the President to increase or decrease import duties in order to equalize the differences between foreign and domestic production costs for similar articles, stated:

"If Congress shall lay down by legislative act an intelligible principle to which the [President] is directed to conform, such legislative action is not a forbidden delegation of legislative power." 426 U.S. 548 (quoting <u>Hampton & Co. v. United States</u>, 276 U.S. 394, 409 (1928)).

The Court then concluded that section 232(b) satisfied the Hampton test. The Court pointed out that section 232(b) establishes clear preconditions to Presidential action, and does not give the President unbounded leeway in deciding what action to take in the event the preconditions are fulfilled. In fact, section 232(b) authorizes the President to act only to the extent necessary to adjust the imports of such article and its derivatives so that such imports will not threaten to impair the national security. Further, section 232(c) articulates a series of specific factors to be considered by the President in exercising his authority under 232(b). 428 U.S. at 559. 18

The Court then proceeded to reject the challengers' argument that the President's authority to adjust imports under section 232(b) encompassed only quantitative methods such as quotas, but not monetary methods such as fees. The Court concluded that the broad language of the statute and its legislative history belies any suggestion that Congress intended to limit the President's authority to imposing quotas. 426 U.S. 561, 570. However, in approving the license fees, the Court made clear that its holding

¹⁸The Court rejected the challengers' reliance on National Cable, discussed previously. In so doing, the Court contrasted that case's consideration of the open-ended nature of the "public policy or interest served, and other pertinent facts" provision in the User Charge Statute with the more limited authorization in section 232(b) and clearly articulated standards in section 232(c). 426 U.S. 559, note 10.

did not compel the conclusion that any Presidential action having a remote impact on imports also is authorized.

This warning by the Court was prophetic. In Independent Gasoline Marketers Council v. Duncan, 492 F. Supp. 614 (D.D.C. 1980), the Court struck down the Petroleum Import Adjustment Program (PIAP) initiated by the President under the authority of section 232 of the Trade Expansion Act. The PIAP would have collected a floating license fee on importers which would be measured by the effect the fee had on the retail price of all The purpose was to raise the price of all gasoline by 10 cents a gallon. Importers would have been reimbursed their costs by refiners through the PIAP entitlement program while refiners would pass through the costs on their sales of both domestic and imported oil products. The Court determined that the fee was not directed at the reduction of imported oil but at the reduction of the consumption of all oil with only an incidental effect on the retailing of imported gasoline. The Court struck down the fee as being unauthorized by the statute. The Court held that unlike Algonquin where the fee assessed directly affected the price of imported oil relative to domestic oil, the PIAP fee had no similar effect.

The Court further held that section 232 does not authorize the President to impose general controls on domestically produced goods either through monetary mechanisms or through quantitative devices. The statute provided for the regulation of imports, which may have an incidental impact on domestic goods. Since the primary purpose of the PIAP fee was to regulate both domestic and imported oil, it was not within the scope of authority conferred by the statute, and therefore unauthorized. 492 F. Supp. 618.

Taxes

As the foregoing discussion of user charges and regulatory fees demonstrates, whether an agency possesses the authority to exact a charge depends not on its characterization, but instead on whether the charge is properly exacted pursuant to an adequate grant of authority conferred by law. When the courts find a specific charge to be unauthorized, they may do so by rejecting the agency's request to read the statute broadly on the grounds that such a reading would move the statute towards a delegation of Congress' taxing power. The courts often avoid addressing the taxing power by concluding that the proposed charge does not satisfy the statutory standards applicable to that fee.

Thus, even in cases like <u>National Cable</u> where the Supreme Court has chosen to describe some of the attributes of taxes ¹⁹, it has not had to define what constitutes a tax, even The Court indicated that taxes may be arbitrary, going solely to ability to pay, based on property or income. Further a tax may be made heavy to discourage an activity ²⁰ or to prevent exploitation of a

¹⁹See footnote no. 11.

²⁰ Under current court precedent, user charges are recoverable when they are intended to recoup costs incurred by an agency for bestowing a special benefit on an identifiable recipient, and not the public generally. Regulatory fees may be unrelated to the bestowing of any special benefit on the party assessed, but instead may be assessed on the basis of accomplishing some independent regulatory objective authorized by law. For example, such fees may be intended to discourage an activity; one of the attributes of a tax. Regulatory fees unlike taxes may not be arbitrary. However, if the power to exact a tax is to be exercised by an agency, it must be pursuant to an appropriate delegation of authority and the agency's action must be guided by an intelligible legislative standard. In this sense the agency may not act arbitrarally.

semipublic cause for private gain. Alternatively a tax may be made light to bestow a bounty.

However, a recent case has addressed the proposition that the taxing power may be delegated to an agency and concluded that an agency may assess a tax under adequate standards. Florida Power & Light Co. v. U.S., 846 F.2d 765, 771-775 (D.C. Cir. 1988) (appeal pending).

In Florida Power the Court considered the authority conferred on the Nuclear Regulatory Commission (NRC) by section 7601 of the Consolidated Omnibus Budget Reconciliation Act of 1985, 42 U.S.C.A. 2213 (West Supp. 1988). Section 7601 directed the NRC to assess and collect annual fees from NRC licensees to fund all or part of the activities conducted by the NRC. The NRC is required to impose the annual charges through rulemaking subject to three limitations: (1) the aggregate annual fee plus other amounts collected (e.g. under the User Charge Statute) may not exceed thirty-three percent of the NRC's fiscal year costs, (2) the annual charges must be reasonably related to the regulatory services provided by the NRC and (3) the charges shall fairly reflect the cost of the NRC providing the service.

The NRC adopted a rule setting a uniform annual fee for each power operating licensee by calculating the NRC's costs budgeted for certain generic services (services that do not have a specific identifiable beneficiary) which it concluded were reasonably related to regulating all licensees in the category. The costs were compared to thirty-three percent of the NRC's budget less fees collected under the User Charge Statute, and the resulting amount divided by the number of operating licensees.

After rejecting the contention that the judicial standard applicable to the User Charges Statute should also be applied to assessments under section 7601, the court held that even if the assessment of the fees for generic services was characterized as a tax, the delegation of authority to the NRC would meet constitutional limitations. The Court viewed the constitutional problems discussed in prior cases as being one of adequate standards, rather than holding that the taxing power cannot be delegated. The Court then concluded that NRC had exercised its authority in conformity with an intelligible legislative standard and section 7601 met these limitations. 846 F.2d 772-776.

EPA's Statutory Authority

EPA has identified section 157 of the Clean Air Act, 42 U.S.C. 7457, and section 6 of the Toxic Substances Control Act, 15 U.S.C. 2605, as potential authority to implement economic measures as part of its regulatory program.

Section 157 of the Clean Air Act, 42 U.S.C. 7457, requires the Administrator to:

propose regulations for the control of any substance, practice, process, or activity (or any combination thereof) which in his judgment may reasonably be anticipated to affect the stratosphere, especially ozone in the stratosphere, if such effect in the stratosphere may reasonably be anticipated to endanger public health or welfare. Such regulations shall take into account the feasibility and the cost of achieving such control.

This grant of regulatory authority is broad and neither requires nor prohibits a particular type of regulatory control.

Furthermore, the legislative history lends some support to the view that the Administrator be given latitude to use a variety of methods to address this problem. For example, the report of the House Interstate and Foreign Commerce Committee²¹ states that under this provision

". . . the Administrator is directed to take into account the "feasibility and cost of" complying with any stratosphere protection measure recommended or promulgated by him. By using this language, the committee intends to assure that any such measure is undertaken only with adequate awareness of its costs and its other economic impacts and social impacts. This informed awareness is necessary for the Administrator in determining what combination of stratospheric protection measures are most appropriate, and for the Congress in reviewing any such measures recommended or promulgated by the Administrator" [emphasis added].

The report also states that the primary purpose of the statute is to protect the public health, and that therefore "the committee does not wish to tie the Administrator's hands or confer an authority which is cumbersome or unduly difficult to use, administer, or enforce." 22

Section 6(a)(5) of the Toxic Substances Control Act provides that:

"If the Administrator finds that there is a reasonable basis to conclude that the manufacture, processing, distribution in commerce, use, or disposal of a chemical substance or

²¹H.R. Rep. No. 95-294, 95th Cong., 1st Sess., 101 (1977). ²²Id.

mixture, or that any combination of such activities, presents or will present an unreasonable risk of injury to health or the environment, the Administrator shall by rule apply one or more of the following requirements to such substance or mixture to the extent necessary to protect adequately against such risk using the least burdensome requirements: * * * (5) A requirement prohibiting or otherwise regulating any manner or method of commercial use of such substance or mixture."

Section 6(c) establishes issues to be considered and requirements to be followed by the Administrator in promulgating such requirement.

The conferral of authority under this provision is also broad. As with the Clean Air Act, there is no express mention of the use of economic measures as a means of bringing about a legitimate regulatory objective. Further, the legislative history does not indicate whether Congress intended the use of some form of economic measure to be authorized or prohibited.

As we discussed in the <u>Head Money Cases</u>, economic measures for regulatory purposes can find their origin in powers other than the taxing power (for example the commerce power). Applying the holding of the Court in <u>Algonquin</u>, an express conferral of the use of economic means is not necessary where there is a broad grant of authority coupled with an adequate standard against which to apply that authority.

However, the case before us presents several unresolved issues. First, does the Clean Water Act or the Toxic Substances Control Act contain the broad grant of authority under which EPA may use the economic measures being employed. Second, do these

acts provide adequate standards for EPA to follow? Third, if so, do the economic measures being considered meet those standards?

In addressing these questions, a fundamental issue is whether the economic measures will be primarily employed to bring about a legitimate regulatory objective or to generate revenue. In this regard, EPA's primary focus has been on the windfall producers will derive from the allocated quota system and the effect this could have on the development of substitutes. 23 We note that in Algonquin, the fee was imposed after quotas on imports failed to bring about a reduced reliance on imported petroleum products. In the present situation, EPA already has in place a regulation it deems effective to implement the Montreal Protocol. Whether these considerations would have a bearing on the legality of any regulatory scheme that employes economic measures remains to be seen.

See also Major Policy Initiatives, 1990 pp. 154-155.

²³See also <u>The United States Budget In Brief, Fiscal Year 1990</u>, p.89, which states:

[&]quot;The administration is also proposing to charge market value for the rights to produce chlorofluorocarbons (CFCs) and related substances that deplete the ozone layer (CFCs are used as refrigerants and solvents as well as to make insulation). Current regulations, which require major reductions in the production of CFCs, will lead to a significant rise in the price of CFCs. By charging market value for these limited production rights, the revenue resulting from the price rise would accrue to the Treasury for the benefit of the general public, rather than to producers as windfall profits. Capturing this windfall will also remove the potential disincentive that profits might have on current producers to quickly develop environmentally safer but potentially less profitable substitutes for CFCs. Mechanisms to be considered could include permit fees and auctions. The charges for these rights are expected to generate proceeds in 1990 of \$0.4 billion."

Auctions

One way to evaluate their auction being considered is to view it as a surrogate for a fee, and analyze EPA's authority to implement the auction under the same criteria applicable to a fee as previously discussed. An alternative is to view the auction as a separate and distinct regulatory tool.

Auctions generally have involved the sale of government owned property, such as surplus property sales under 40 U.S.C. 485(b) and timber sales on National Forest System lands under 16 U.S.C. 472a; or the leasing of exploration rights by competitive bidding, such as oil and gas land leases under 30 U.S.C. 226. However, what EPA would be auctioning is neither ownership of government property nor the right to use such property, but rather the right for private industry to continue producing certain chemicals subject to government restrictions. We are unaware of a court decision addressing the case of an auction under such circumstances.

Finally, there is a programmatic issue relating to EPA instituting an auction system inextricably tied to the allocation. Should an auction system be voided by the courts, the allocations based upon the auction would be suspect. This is turn could affect the United States compliance with the requirements of the Montreal Protocol.

CONCLUSIONS

No legislation expressly authorizes EPA to establish the fee or auction system it is exploring. This means that EPA will have to rely on its general regulatory authority under the Clean Air Act or the Toxic Substances Control Act, or the general authority

provided by the User Charge Statute. It would be highly speculative to conclude whether EPA is authorized to use such economic measures under current law. However, as previously discussed, EPA faces various fundamental legal issues, some of which have not been definitively resolved by the courts.

The uncertain resolution of the issues we have discussed suggest that legislative action would be a more appropriate course to follow in addressing whether a fee or auction system should be established to capture windfall profits. If Congress believes that the potential for windfall profits, and for adverse effects arising from the current system of allocating production and consumption, should be addressed by the types of economic measures EPA is considering, we believe the Congress should expressly authorize their use. Furthermore, if Congress enacts such legislation, the Congress also might consider earmarking some or all of the funds recovered for research into substitutes for CFCs and halons. note that earmarking a portion of the funds recovered by the government for special purposes was authorized by the Crude Oil Windfall Profits Tax Act of 1980. Of course, if Congress believes EPA's concerns are without merit, legislation may be needed to prohibit EPA from pursuing economic measures to control CFC and halon production and consumption. A number of bills have been introduced during this Congress to impose economic measures on the production of CFCs and halons.